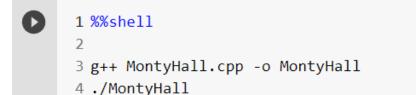
Exercise Week10

- 1. Monty Hall Problem
 - i. A game show to win a car.
 - i. Three closed doors.
 - 1. one is car
 - 2. other two are goats
 - ii. You need to select the door which has a car to win it.
 - iii. When you select a door
 - 1. Other than the door you selected, the host (apparently knows where is the car) will open one door which has a goat.
 - 2. Then the host will offer you a chance to switch to the door which has not been selected by you or been opened by the host.
 - ii. Which decision has a better probability to win a car? Switch or not switch? Or the probabilities are the same?

Strategy A: Always switch Strategy B: Never switch

Please use rand() to simulate 5000 times for each strategy and output the results.



☐→ If you do not switch, the prob. of winning is: 0.xxxx If you switch, the prob. of winning is: 0.xxxx

Please name your .ipynb file as YourID_Week10.ipynb and upload it to moodle system.

(ex. H3700001 Week10.ipynb)

